

Memorandum

To : Deputy District Directors
Project Development
Ken Bandow, Chief
Office of Central Design
Bill Jones, Chief
Office of Structure Design

Date : June 22, 1990

File: :

From : DEPARTMENT OF TRANSPORTATION

Subject : Issuance of New Standard Plans NSP FS-1 and NSP FS-2

At the request of the Division of Traffic Operations, New Standard Plans NSP FS-1 and NSP FS-2 are being issued.

NSP FS-1 and NSP FS-2 include various types of construction project funding identification signs which are to be erected on construction projects which meet the criteria specified in Standard Special Provision 5.00. Standard Special Provision 5.00 (copy attached) is to be included in the project's special provisions when either NSP FS-1 or NSP FS-2 are used.

NSP FS-1 and NSP FS-2 replaces the comparable plan sheets issued by Mr. P. W. Kelley's memorandum dated June 15, 1988.

Headquarters will insert NSP FS-1 or NSP FS-2 as individual project plan sheets when they are applicable to the project. If NSP FS-1 or NSP FS-2 are applicable to the project, they are to be so indicated on the Standard Plans List. A full size reproducible of the latest Standard Plans List is still to be included in the project plans when the PS&E is submitted to Headquarters. Headquarters Office Engineer will include the applicable NSP and Standard Special Provision 5.00 in PS&E currently in Headquarters which are to be advertised July 23, 1990 and later.

In addition to the inclusion of these New Standard Plans on the revised Standard Plans List, the note at the bottom of the Standard Plans List relating to the Standard Plan sheets applicable to the contract has been revised.

The latest Standard Plans List dated June 20, 1990 may be copied by accessing Headquarters CADD system file: TR1VAX::ZJA2:[250,300]RSPLAN.DGN; 1. This replaces all prior versions of this file. Any questions in regard to the CADD file, please contact Glen Boulware at ATSS 8-454-6122.

Attached are 8-1/2" x 11" copies of the New Standard Plans (NSP FS-1 and NSP FS-2) and the latest revised Standard Plans List and a list of all revisions to the January, 1988 Standard Plans book as of June 20, 1990.


P. KAY GRIFFIN
Office Engineer

Attachments

cc: Dick Barlow - Structure Design
Gaylord Wilson - Drafting
Brent Campbell - Central Design
District CADD Coordinators
District OE Units

GENERAL ROAD WORK

□ A-10A	Abbreviation
□ A-10B	Symbols
□ A20-B	Pavement Markers and Traffic Lines, Typical Details
□ A20-C	Pavement Markers and Traffic Lines, Typical Details
□ A-24A	Pavement Markings-Arrows
□ A-24B	Pavement Markings-Arrows and Symbols
□ A-24C	Pavement Markings-Words
□ A-24D	Pavement Markings-Words and Crosswalks
□ A35-A	P.C.C. Paving Details
□ A62-A	Excavation and Backfill Miscellaneous-Limits of Payment
□ A62-B	Excavation and Backfill Bridge Surcharge and Wall-Limits of Payment
□ A62-C	Excavation and Backfill Bridge-Limits of Payment
□ A62-D	Excavation and Backfill Details Concrete
□ A62-E	Excavation and Backfill Details Reinforced Concrete Box and Arch Culverts
□ A62-F	Excavation and Backfill Details Metal Culverts
□ A74-A	Markers and Detectors
□ A74-B	Survey Monuments
□ A75-A	Concrete Barrier Type 50
□ A75-B	Concrete Barrier Type 50
□ A75-C	Headlight Glass Screen
□ A77C-1	Metal Beam Guard Rolling-Standard Hardware
□ A77C-2	Metal Beam Guard Rolling
□ A77-D	Barrier and Guard Rail Anchors
□ A77-E	Cable Anchor Assembly (Bracket)
□ A77-F	Three Beam Barrier
□ A77-G	Three Beam Barrier
□ A79-A	Guard Rail Flares
□ A79-B	Miscellaneous Guard Rail Details
□ A79-C	Guard Rail Connections to Bridge Rails, Retaining Walls and Abutments
□ A79-D	Guard Rail Connections to Bridge Sidewalks and Curb
□ A79-E	Three Beam Connections to Type 50 Barrier
□ A80	Emergency Passageways
□ A83	Portable Scale Pad and Approach Pad Details
□ C7-A1	Reinforced Concrete Crib Wall
□ C7-A2	Reinforced Concrete Crib Wall
□ C7-A3	Reinforced Concrete Crib Wall
□ C7-A4	Reinforced Concrete Crib Wall
□ C7-A5	Reinforced Concrete Crib Wall
□ C7-B1	Reinforced Concrete Crib Wall
□ C7-B2	Reinforced Concrete Crib Wall
□ C8-A	Steel Crib Wall-Construction Details
□ C8-B	Steel Crib Wall-Design Data
□ C8-C	Steel Crib Wall-Design Data
□ C9-A	Timber Crib Wall Types A,B,C, and D
□ C9-B	Timber Crib Wall Types A,B,C, and D-Design Data
□ D72	Drainage Inlets-OS, OL, GLO
□ D73	Drainage Inlets-G1, G2, G3, G4, G5, G6
□ D74	Drainage Inlets-G1, G2, G3, G4, G5, G6
□ D75	Pipe Inlets
□ D77-A	Graze Details
□ D77-B	Blowoff Proof Graze Details
□ D78	Single Box Culvert
□ D80	Double Box Culvert
□ D81	Culvert Miscellaneous Details
□ D83	Culvert Miscellaneous Details
□ D84	Culvert Miscellaneous Details
□ D85	Culvert Miscellaneous Details
□ D86-A	Culvert Miscellaneous Details
□ D86-B	Culvert Miscellaneous Details
□ D86-C	Culvert Miscellaneous Details
□ D87-A	Overhead Signs
□ D87-B	Overhead Signs
□ D88	Construction Loads on Culverts
□ D89	Pipe Headwalls and Strut Details
□ D90	Pipe Culvert Headwalls, Endwalls & Wingwalls Types A, B, & C
□ D93	Drainage Inlet Riser Connections
□ D94	Flared End Sections
□ D95	Concrete Arch Culverts

□ D96	Pipe Riser with Debris Rock Cage
□ D97A	Channel Coupling Band Details No. 1, Flanged End CSP Channel Coupling Band Details - Downdrains, Standard and Positive Joints
□ D97B-1	Channel Coupling Band Details No. 2, Annular, Reinforced end, and Metal Coupling Bands - Downdrains, Standard and Positive Joints
□ D97B-2	Channel Coupling Band Details No. 3, Flanged End CSP Channel Coupling Band Details - Downdrains, Standard and Positive Joints
□ D97C-1	Channel Coupling Band Details No. 4, Universal Coupling Bands Standard and Positive Joints
□ D97C-2	Channel Coupling Band Details No. 5, Universal Coupling Bands Standard and Positive Joints
□ D97D	Channel Coupling Details No. 6 - Standard Joint
□ D97E-1	Channel Coupling Details No. 7 - Positive Joint
□ D97E-2	Channel Coupling Details No. 8 - Positive Joint
□ D97-F	Reinforced Concrete Pipe or Non-Reinforced Concrete Pipe Standard and Positive Joints
□ D98-A	Standard Inlet Structure Shoulder Installation and Details of Sloped Drain Connections
□ D98-B	12" Thru 24" Sloped C.S.P. Drain Details
□ D98-C	Alternative Hinged Cover for Type OL & OS Inlets and from Road for Type ODF Inlet
□ D98-D	Structural Section Drainage System Details
□ D98-E	Edge Drain Outlet and Vent Details
□ D98-F	Edge Drain Cleanout
□ D98-G	Cross Drain Interceptor Details
□ D98-H	Chain Link Fence
□ D98-I	Barbed Wire and Wire Mesh Fence
□ D98-J	Curbs, Dikes and Driveways
□ D98-K	Wheelchair Ramp Details No. 2
□ D98-L	Traffic Control System for Lane Closures on Freeways and Expressways, Miscellaneous Details
□ D98-M	Traffic Control System for Lane Closures on Multiple Conventional Highways, Miscellaneous Details
□ D98-N	Traffic Control System for Lane Closure on Two Lane Conventional Highways
□ D98-O	Details for Ramp Closures, Miscellaneous Details

BRIDGE

□ B0-1	Bridge Details
□ B0-2	Bridge Details
□ B0-3	Bridge Details
□ B0-4	Bridge Details
□ B0-5	Bridge Details
□ B0-6	Bridge Details
□ B0-7	Bridge Details
□ B0-8	Bridge Details
□ B0-9	Bridge Details
□ B0-10	Bridge Details
□ B0-11	Bridge Details
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□ B0-93	Bridge Details
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□ B0-95	Bridge Details
□ B0-96	Bridge Details
□ B0-97	Bridge Details
□ B0-98	Bridge Details
□ B0-99	Bridge Details
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SIGNS, SIGNALS & LIGHTING

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□ S1-12	Overhead Signs, Truss, Instructions and Examples
□ S2-11	Overhead Signs, Truss, Single Post Type, Post Type 1 thru 11
□ S3-11	Overhead Signs, Truss, Two Post Type, Post Type 1 thru 11
□ S4-6	Overhead Signs, Truss, Single Post Type, Structural Frame Members
□ S5-6	Overhead Signs, Truss, Two Post Type, Structural Frame Members
□ S6-8	Overhead Signs, Truss, Structural Frame Details
□ S7-8	Overhead Signs, Truss, Frame Junction Details
□ S8B	Overhead Signs, Truss, Frame Removable Sign Panel Frames
□ S8A	Overhead Signs, Truss, Single Post Type, Structural Frame Members
□ S8C	Overhead Signs, Truss, Single Post Type, Structural Frame Members
□ S8D	Overhead Signs, Truss, Single Post Type, Structural Frame Members
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□ S10-9	Overhead Signs, Truss, Single Post Type, Post Type 1 thru 11
□ S11-10	Overhead Signs, Truss, Single Post Type, Post Type 1 thru 11
□ S13-10	Overhead Signs, Truss, Single Post Type, Post Type 1 thru 11

OVERHEAD SIGNS - LIGHTWEIGHT

□ S14A-5	Overhead Signs, Lightweight, Balanced-Single Steel Post Connection and Mounting Details
□ S14B-4	Overhead Signs, Lightweight, Balanced-Single Steel Post Details
□ S15-8	Overhead Signs, Lightweight, Type A, Connection Details
□ S16-7	Overhead Signs, Lightweight, Type B, Connection Details
□ S17-8	Overhead Signs, Lightweight, Type C, Connection Details
□ S18A-8	Overhead Signs, Lightweight, Sign Panel Mounting Details, Laminated Panel, Type A
□ S18B-7	Overhead Signs, Lightweight, Light Fixture Mounting Details
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OVERHEAD SIGNS - BOX BEAM

CLOSED TRUSS ALTERNATIVE

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□ S40B-1	Overhead Signs, Box Beam, Closed Truss Alternative, Single and Two Post Type General Frame Details
□ S40C-1	Overhead Signs, Box Beam, Closed Truss Alternative, Ribbed Sheet Metal Details
□ S40D-1	Overhead Signs, Box Beam, Closed Truss Alternative, Two Post Type Frame Details
□ S40E-1	Overhead Signs, Box Beam, Closed Truss Alternative, Two Post Type Frame Junction Details
□ S40F-1	Overhead Signs, Box Beam, Closed Truss Alternative, Two Post Type Post Details
□ S40G-1	Overhead Signs, Box Beam, Closed Truss Alternative, Single Post Type Frame Members
□ S40H-1	Overhead Signs, Box Beam, Closed Truss Alternative, Single Post Cantilever Frame Details
□ S40I-1	Overhead Signs, Box Beam, Closed Truss Alternative, Single Post Cantilever Frame Junction Details
□ S40J-1	Overhead Signs, Box Beam, Closed Truss Alternative, Single Post Cantilever Post Details
□ S40K-1	Overhead Signs, Box Beam, Closed Truss Alternative, Single Post Butterfly Frame Details
□ S40L-3	Overhead Signs, Box Beam, Closed Truss Alternative, Single Post Butterfly Frame Junction Details
□ S40M-1	Overhead Signs, Box Beam, Closed Truss Alternative, Single Post Butterfly Post Details

OVERHEAD SIGNS - TUBULAR

□ S40N	Overhead Signs, Tubular, Instructions and Examples
□ S40P	Overhead Signs, Tubular, Single Post Type Layout and Pipe Selection
□ S40Q	Overhead Signs, Tubular, Two Post Type Layout and Pipe Selection
□ S40R	Overhead Signs, Tubular, Structural Frame Details No. 1
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□ S42-15	Roadside Signs, Wood Posts, Typical Installation Details No. 2
□ S43-A	Roadside Signs, Laminated Wood Box Posts Typical Installation Details No. 3
□ S43-B	Roadside Signs, Steel Post, Typical Installation Details
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SIGNAL AND LIGHTING DETAILS

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□ ES-5E	Signal and Lighting Details, Detectors
□ ES-5F	Signal and Lighting Details, Pedestrian Barriers
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□ ES-6B	Signal and Lighting Standards, Types 15 and 21
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□ ES-6E	Signal and Lighting Standards, Type 33
□ ES-6F	Signal and Lighting Standards, Type 34
□ ES-6G	Signal and Lighting Standards, Type 35

To accompany plans dated _____

□ ES-6J	Signal and Lighting Standards Case 1 Arm Loading, Wind Velocity - 70 MPH Arm Lengths 15' to 30'
□ ES-6K	Signal and Lighting Standards Case 2 Arm Loading, Wind Velocity - 70 MPH Arm Lengths 20' to 30'
□ ES-6L	Signal and Lighting Standards Case 3 Arm Loading, Wind Velocity - 70 MPH Arm Lengths 20' to 30'
□ ES-6M	Signal and Lighting Standards Case 4 Arm Loading, Wind Velocity - 70 MPH Arm Lengths 25' to 45'
□ ES-6MA	Signal and Lighting Standards Case 5 Arm Loading, Wind Velocity - 70 MPH Arm Lengths 50' to 55'
□ ES-6N	Signal and Lighting Standards Case 6 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 30'
□ ES-6O	Signal and Lighting Standards Case 7 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 30'
□ ES-6P	Signal and Lighting Standards Case 8 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 20' to 30'
□ ES-6Q	Signal and Lighting Standards Case 9 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 20' to 30'
□ ES-6R	Signal and Lighting Standards Case 10 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
□ ES-6S	Signal and Lighting Standards Case 11 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6U	Signal and Lighting Standards Case 13 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6AB	Signal and Lighting Standards Case 20 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6AD	Signal and Lighting Standards Case 22 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6AI	Signal and Lighting Standards Case 27 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6AU	Signal and Lighting Standards Case 39 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6BI	Signal and Lighting Standards Case 53 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6BK	Signal and Lighting Standards Case 55 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6BM	Signal and Lighting Standards Case 57 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6BO	Signal and Lighting Standards Case 59 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
□ ES-6BP	Signal and Lighting Standards Case 60 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
□ ES-6BQ	Signal and Lighting Standards Case 61 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6BX	Signal and Lighting Standards Case 68 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6CE	Signal and Lighting Standards Case 75 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
□ ES-6CF	Signal and Lighting Standards Case 76 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'
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□ ES-6CK	Signal and Lighting Standards Case 81 Arm Loading, Wind Velocity - 80 MPH Arm Lengths 25' to 45'

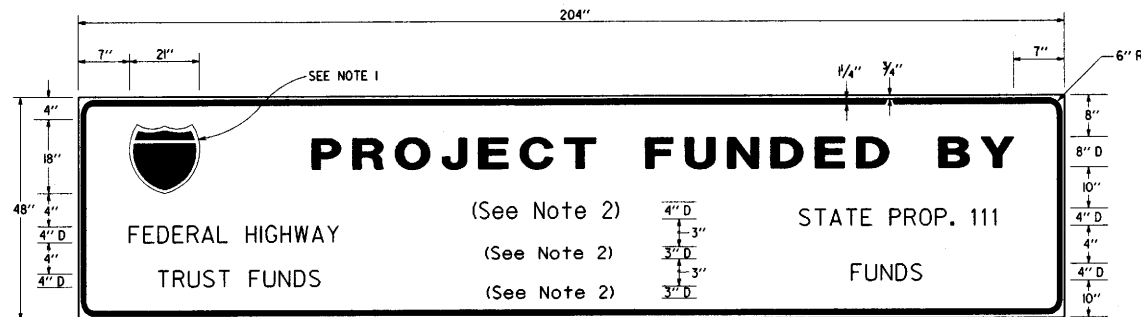
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

To accompany plans dated _____

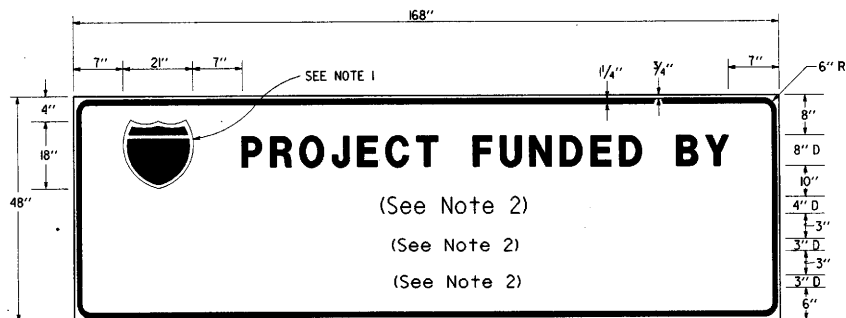
M. Gordon 6-20-90
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE _____

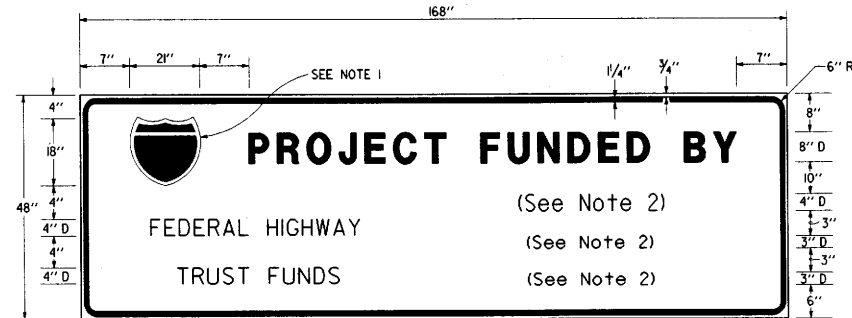
NOTES
P. L. LORSEN, JR.
No. 12284
Exp. 3-31-93
CIVIL
STATE OF CALIFORNIA



TYPE 3



TYPE 1



TYPE 2

NOTES:

1. ROUTE SHIELD (STATE FURNISHED)
2. APPLICABLE CITY OR COUNTY FUND TYPE AND LOCAL AGENCY
3. THE LEGEND AND BORDER OF THE SIGN SHALL BE BLACK ON A WHITE BACKGROUND (NON-REFLECTIVE)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONSTRUCTION PROJECT
FUNDING
IDENTIFICATION SIGNS**
NO SCALE

NEW STANDARD PLAN NSP FS-1

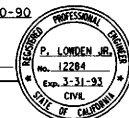
CU

EA

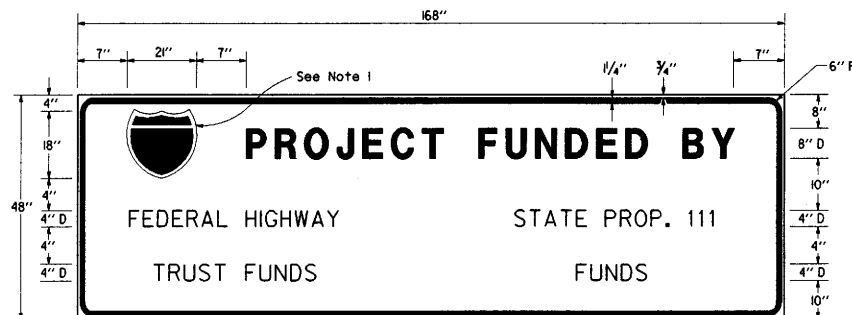
STD. PLAN NSP FS-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS

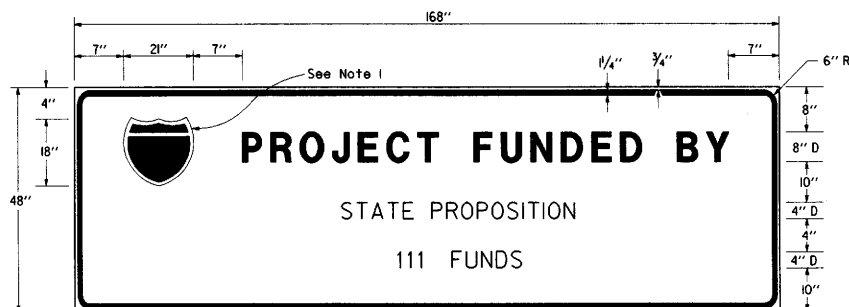
6-20-90
 REGISTERED CIVIL ENGINEER
 PLANS APPROVAL DATE



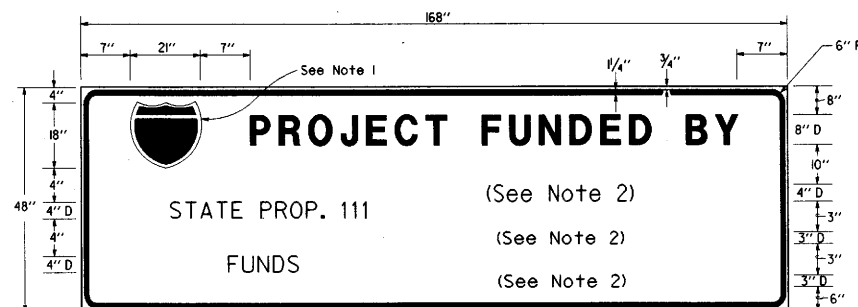
To accompany plans dated _____



TYPE 6



TYPE 4



TYPE 5

NOTES:

1. ROUTE SHIELD (STATE FURNISHED)
2. INSERT APPLICABLE CITY OR COUNTY FUND TYPE AND LOCAL AGENCY
3. THE LEGEND AND BORDER OF THE SIGN SHALL BE BLACK ON A WHITE BACKGROUND (NON-REFLECTIVE).

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CONSTRUCTION PROJECT
 FUNDING
 IDENTIFICATION SIGNS**
 NO SCALE

NEW STANDARD PLAN NSP FS-2

CU

EA

STD. PLAN NSP FS-2

(Instructions revised.)

(To be used on projects (except seal coats, resurfacing and seismic projects) that have an estimated contract cost of \$300,000 or more and duration of the contract is 50 working days or more, not including plant establishment working days.)

(NOTE: When the project is located within a city or a city like urban location, the District must determine if space is available for project funding identification signs. If space is limited, such signs will not be required.)

(District to provide funds under State-Furnished Materials for highway route shields.)

(Para. 1: District to determine quantity and type of signs to be specified. NOTE: Applicable Construction Project Funding Identification Sign detail sheets must be included in the plans.)

*

.c2.10-1.00 CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS;--Before any major physical construction work readily visible to highway users is started on this contract, the Contractor shall furnish and erect __ Type __ Construction Project Funding Identification Signs at the locations designated by the Engineer.

2

The signs shall be of a type and material consistent with the estimated time of completion of the project and shall conform to the details shown on the plans.

3 *

(Para. 3: Edit as applicable for the highway route involved.)

The letters shall be black on a white background (non-reflective). The highway route shield shall be for Federal Interstate U.S. Highway State Highway County Highway Route _____. The highway route shields will be State-furnished as provided under "Materials" elsewhere in these special provisions.

4

The letter sizes to be used shall be as shown on the plans. The information shown on the signs shall be limited to that shown on the plans.

5

The signs shall be kept clean and in good repair by the Contractor.

6

Upon completion of the work, the signs shall be removed and disposed of outside the highway right of way in accordance with the provisions in Section 7-1.13 of the Standard Specifications.

7

(Para. 7: Edit when there is no item for construction area signs.)

Full compensation for furnishing, erecting, maintaining, and removing and disposing of the construction project funding identification signs shall be considered as included in the contract lump sum price paid for construction area signs and no additional compensation will be allowed therefor.

JANUARY 1988 STANDARD PLANS BOOK

Revisions and Additions as of June 20, 1990

<u>Date</u>	<u>Plan No.</u>	<u>Plan Title</u>
07-05-88	RSP D87-C	Underdrains
10-31-88	RSP T-12	Traffic Control System For Lane Clousure On Multilane Conventional Highways
12-16-88	NSP D79	Precast Reinforced Concrete Pipe, Direct Design Method
12-20-88	RSP B7-11	Utility Details
12-20-88	RSP ES-6E	Lighting Standards, Type 30 and 31, Base Plate Details
06-20-90	NSP FS-1	Construction Project Funding Identification Signs
06-20-90	NSP FS-2	Construction Project Funding Identification Signs